

OriGene Technologies, Inc.

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Product datasheet for TA808020M

Cardiac Troponin I (TNNI3) Mouse Monoclonal Antibody [Clone ID: OTI14A2]

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|--|
| Clone Name: | OTI14A2 |
| Applications: | IHC, WB |
| Recommended Dilution: | WB 1:2000, IHC 1:150 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| lsotype: | lgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Native troponin complex |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 23.8 kDa |
| Gene Name: | troponin I3, cardiac type |
| Database Link: | <u>NP_000354</u> <u>Entrez Gene 21954 MouseEntrez Gene 29248 RatEntrez Gene 7137 Human</u> <u>P19429</u> |
| Background: | Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq, Jul |



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Synonyms:

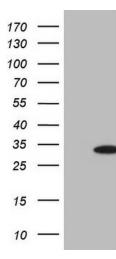
Protein Families:

CMD1FF; CMD2A; CMH7; cTnl; RCM1; TNNC1

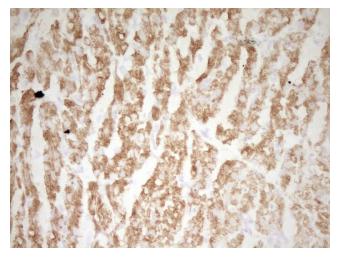
Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

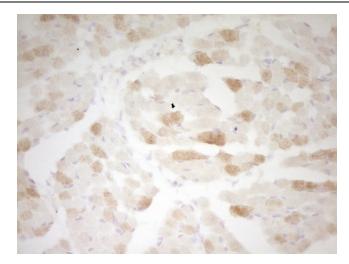
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNNI3 ([RC214740], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNNI3. Positive lysates [LY424766] (100ug) and [LC424766] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffinembedded Human adult heart tissue using anti-TNNI3 mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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Immunohistochemical staining of paraffinembedded Human muscle tissue using anti-TNNI3 mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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